

S/N 09/575348

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: 09/575348 Examiner: S. IP
Serial No.: 09/575348 Group Art Unit: 1742
Filed: May 19, 2000 Docket No.: 12052.33US01
Title: BILLET FOR COLD FORGING, METHOD OF MANUFACTURING
BILLET FOR COLD FORGING, METHOD OF CONTINUOUSLY COLD-
FORGING BILLET, METHOD OF COLD-FORGING

PATENT

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GROUP 1700CERTIFICATE UNDER 37 CFR 1.6(d):

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on June 11, 2003.

By: 
Name: Lisa DornVOLUNTARY AMENDMENT

Mail Stop Non-Fee Amendment
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Dear Sir:

Please amend this application as follows:

IN THE CLAIMS

1. (FIFTH AMENDED) A billet of steel for continuous cold forging, consisting essentially of 0.46 - 0.48 wt % of C (carbon), 0.14 wt % or less of Si (silicon), 0.55 - 0.65 wt % of Mn (manganese), 0.015 wt % or less of P (phosphorus), 0.015 wt % or less of S (sulfur), 0.15 wt % or less of Cu (copper), 0.20 wt % or less of Ni (nickel), and 0.35 wt % or less of Cr (chromium), wherein a carbide of the billet is spheroidized and the billet has a limiting upsetting ratio of 90 % or more without the occurrence of cracks.

2. (FIFTH AMENDED) A billet of steel for continuous cold forging, consisting essentially of 0.46 - 0.48 wt % of C (carbon), 0.14 wt % or less of Si (silicon), 0.55 - 0.65 wt % of Mn (manganese), 0.015 wt % or less of P (phosphorus), 0.015 wt % or less of S (sulfur), 0.15 wt % or less of Cu (copper), 0.20 wt % or less of Ni (nickel), and 0.35 wt % or less of Cr (chromium), wherein a carbide of the billet is spheroidized and has an aspect ratio of 300 % or